

2. WASTE SUMMARY INFORMATION

This section presents various high-level summary description tables and figures for the INEL stored transuraneously-contaminated wastes. The tables and figures show the relative volume or mass distributions of the total waste inventory for selected top-level summary parameters of interest such as waste type, waste generator, physical form, combustibility, primary material components, RH versus CH, primary radionuclides, container types, etc. The waste types include mixed and non-mixed alpha low-level and mixed and non-mixed transuranic waste. The total waste inventory volume is estimated to be approximately 65,000 cubic meters. The mass corresponding to this volume is estimated to be approximately 3.17 E+07 kilograms. Since all shipment records are volume-based, the volume summaries are believed to be less uncertain than the relative mass summaries.

Figure 2-1 and Table 2-1 show the waste types and estimated volume stored at the INEL.

Figure 2-2a, Figure 2-2b, and Table 2-2 show the estimated waste volume by the generators of the waste.

Figure 2-3 and Table 2-3 show the waste type by physical form (volume based).

Figure 2-4a and Figure 2-4b and Table 2-4 show the estimated combustibility of the waste.

Figure 2-5 and Table 2-5 show the estimated distribution of primary waste matrix components (mass basis).

Figure 2-6 and Table 2-6 show volume estimates of waste suspect or known to contain remote-handled material.

Figure 2-7 and Table 2-7 show the estimated distribution and activity for primary radionuclides (mass basis).

Figure 2-8a, Figure 2-8b and Table 2-8 show the estimated distribution of RCRA categories for the mixed ALLW and mixed TRUW (volume basis).

Table 2-9 presents an estimation of special-case waste.

Table 2-10 presents a summary of container type, volume and mass by waste type and waste stream identifier code.

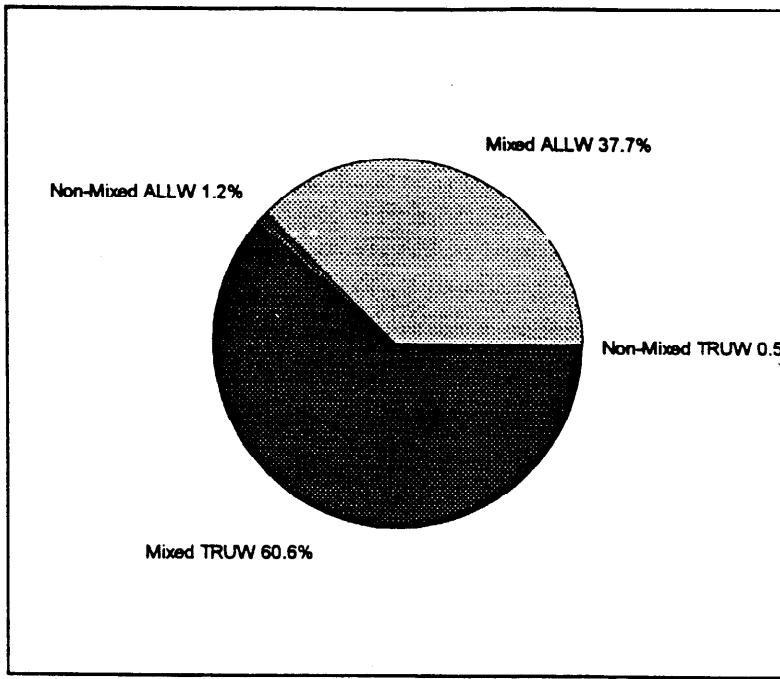


Figure 2-1. Waste types at the INEL.

Table 2-1. Waste types stored at the INEL.

Waste type	Volume (m ³)	Number of identified waste streams ^a
Mixed ALLW ^b	24,635	84
Non-mixed ALLW	786	12
Subtotal	25,421	96
Mixed TRUW	39,171	115
Non-mixed TRUW	325	39
Subtotal	39,496	154
Totals	64,917	250

a. A listing of waste stream identification codes and names is given in Section 6.1.

b. The ALLW waste type was derived from the reclassification of TRU waste from >10 nCi/g to >100 nCi/g transuranium radionuclides.

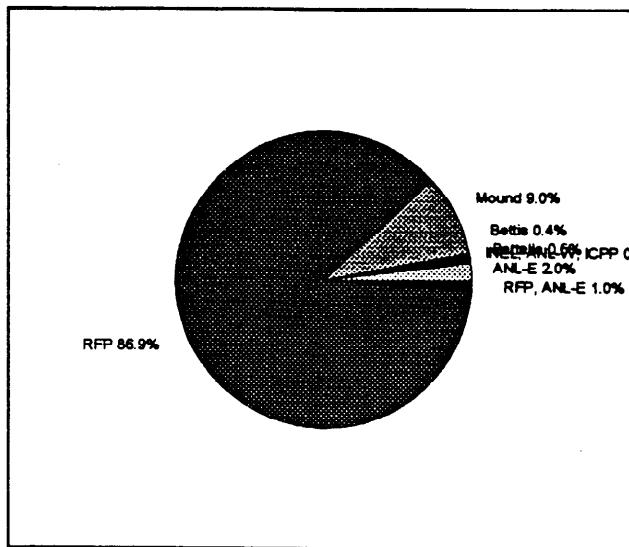


Figure 2-2a. Generators of stored ALLW

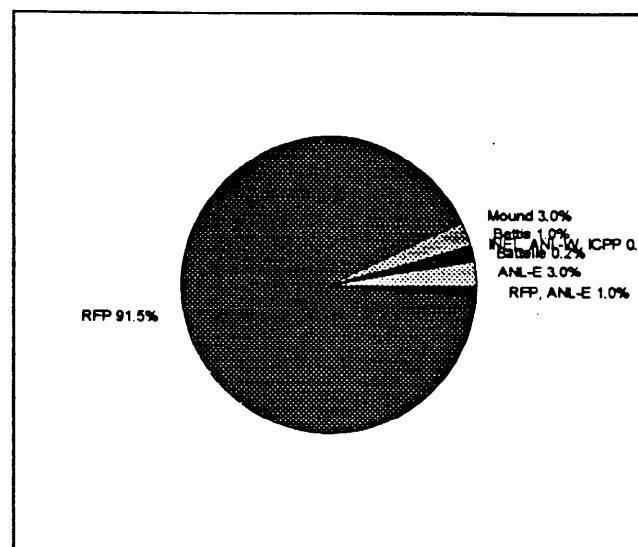


Figure 2-2b. Generators of stored TRUW.

Table 2-2. Waste volume and mass by generator.

Generator Site	Volume (m ³)	%
Alpha Low Level Categorized Waste		
ANL-E	471.0	2.0
Battelle	116.0	0.5
Bettis	97.0	0.4
INEL, ANL-W, ICPP	51.0	0.2
Mound	2,231.0	9.0
RFP	22,170.0	87.0
RFP, ANL-E	285.0	1.0
Subtotal	25,421.0	
Transuranic Categorized Waste		
Unknown	13.0	<0.1
ANL-E	1,107.0	3.0
Battelle	75.0	0.2
Bettis	322.0	1.0
INEL, ANL-W, NRF, ICPP	129.0	0.3
Mound	1,023.0	3.0
RFP	36,246.0	92.0
RFP, ANL-E	579.0	1.0
Subtotal	39,497.0	
Total	64,916	

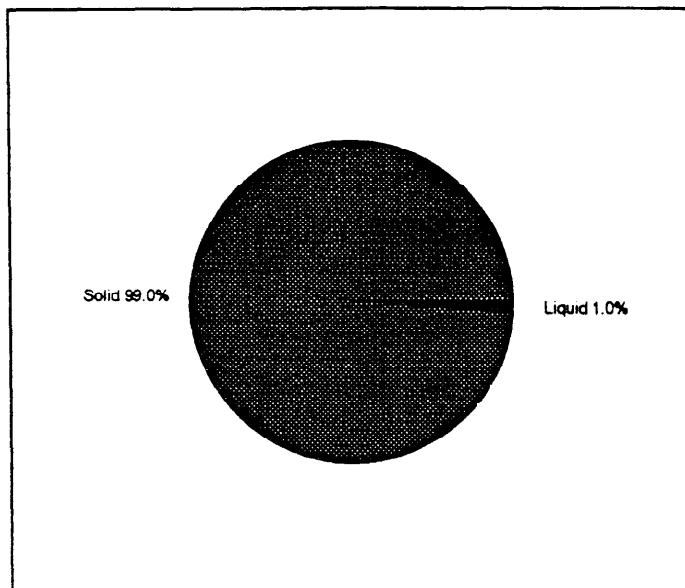


Figure 2-3. Physical form of TSA waste.

Table 2-3. Waste volume by physical form.

	Physical form		Volume (m ³)
	Liquid	Solid	
Mixed Alpha LLW	< 1%	>99%	
Non-mixed Alpha LLW	< 1%	>99%	
Mixed TRUW	< 1%	>99%	
Non-mixed TRUW	< 1%	>99%	
		Total	64,917

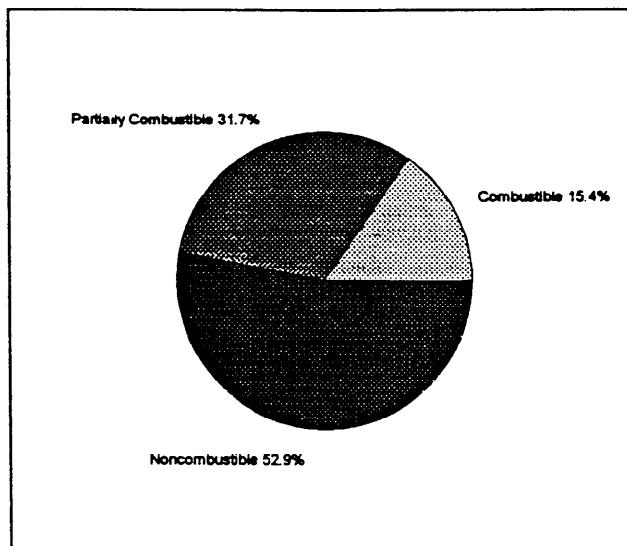


Figure 2-4a. Combustibility of ALLW

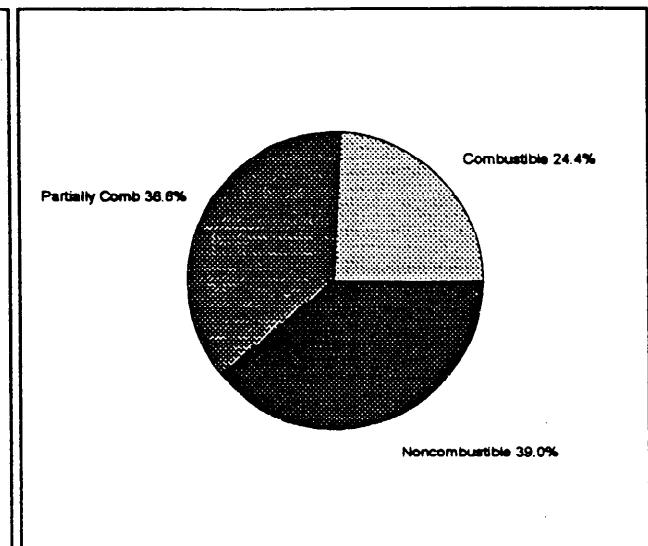


Figure 2-4b. Combustibility of TRUW

Table 2-4. Combustibility of waste.

Combustibility ^a	Volume % ALLW	Volume % TRUW
Combustible	15.4	24.4
Partially combustible	31.7	36.6
Noncombustible	52.8	39.0
Total Volume	25,421 m³	39,496 m³

a. Waste combustibility varies significantly between waste types. The basis for definition is: combustible waste contains greater than 90% combustible materials; partially combustible waste contains between 10 and 90% combustible materials; and noncombustible waste contains less than 10% combustible materials.

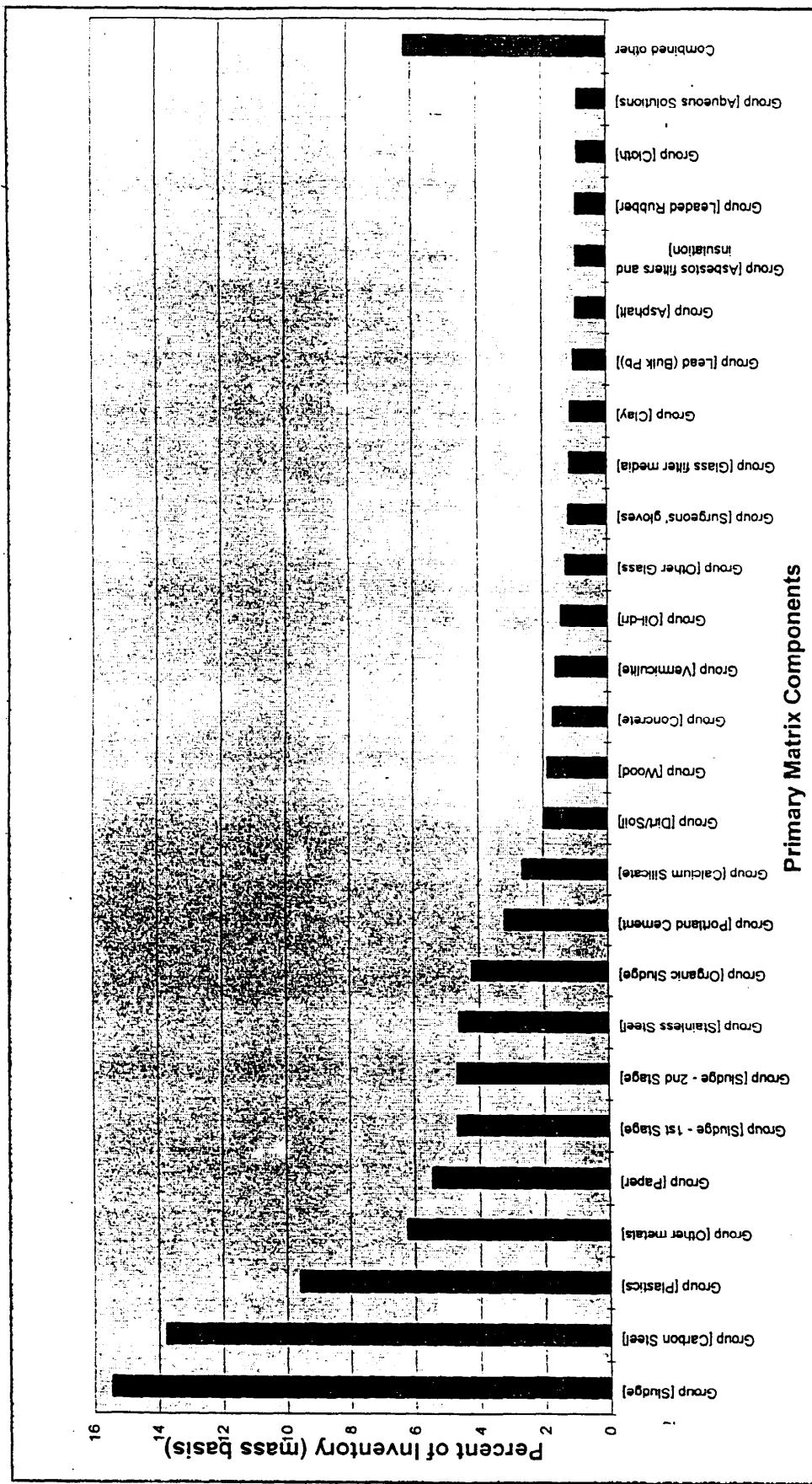


Figure 2-5. Waste matrix distribution of stored ALLW and TRUW.

Table 2-5. Distribution of primary waste matrix components.

Component	Percent of Inventory (mass basis) ^a
Group [Sludge]	15.5
Group [Carbon Steel]	13.8
Group [Plastics]	9.6
Group [Other metals]	6.2
Group [Paper]	5.5
Group [Sludge - 1st Stage]	4.7
Group [Sludge - 2nd Stage]	4.7
Group [Stainless Steel]	4.6
Group [Organic Sludge]	4.2
Group [Portland Cement]	3.2
Group [Calcium Silicate]	2.6
Group [Dirt/Soil]	2.0
Group [Wood]	1.9
Group [Concrete]	1.7
Group [Vermiculite]	1.6
Group [Oil-dri]	1.5
Group [Other Glass]	1.3
Group [Surgeons' gloves]	1.2
Group [Glass filter media]	1.2
Group [Clay]	1.1
Group [Lead (Bulk Pb)]	1.1
Group [Asphalt]	1.0
Group [Asbestos filters and insulation]	1.0
Group [Leaded Rubber]	1.0
Group [Cloth]	0.9
Group [Aqueous Solutions]	0.9
Combined other	6.2
Subtotal	100

a. See section 3 for additional information.

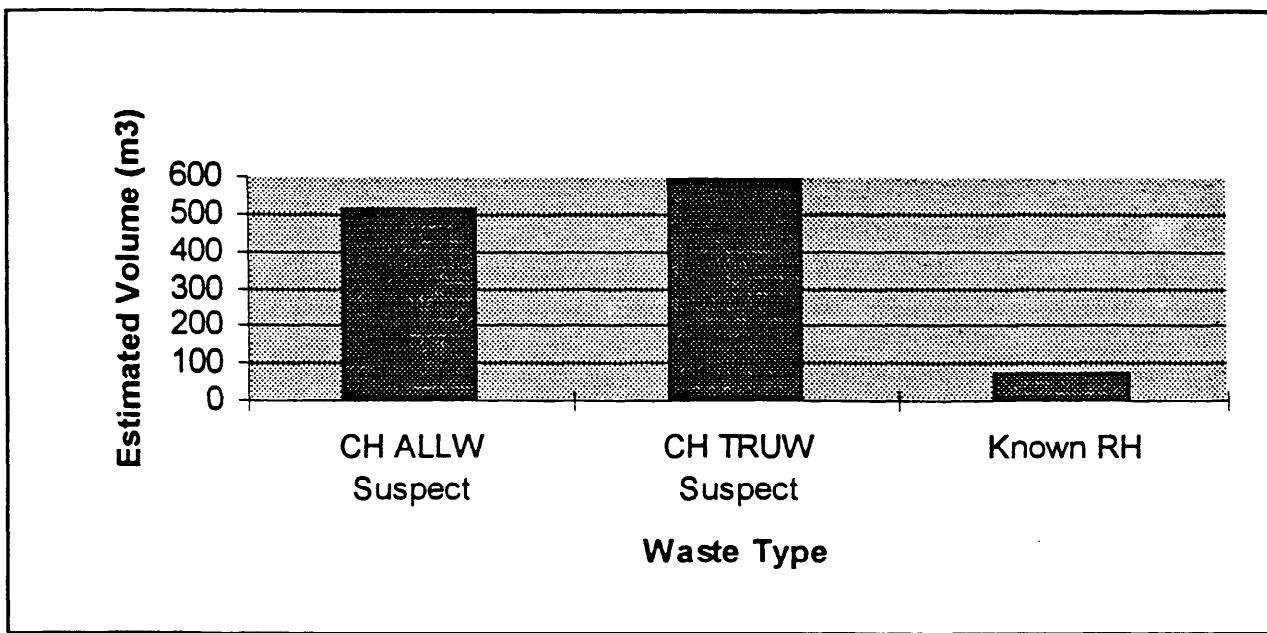


Figure 2-6. Known and suspect RH waste.

Table 2-6. Waste suspect or known to contain remote-handled material.

Waste category	Volume (m³)
TSA CH ALLW Suspect to be RH (mixed and non-mixed)	509.4
TSA CH TRUW Suspect to be RH (mixed and non-mixed)	595.9
TSA ILTSF Waste Known to be RH	75.0
Total	1,180

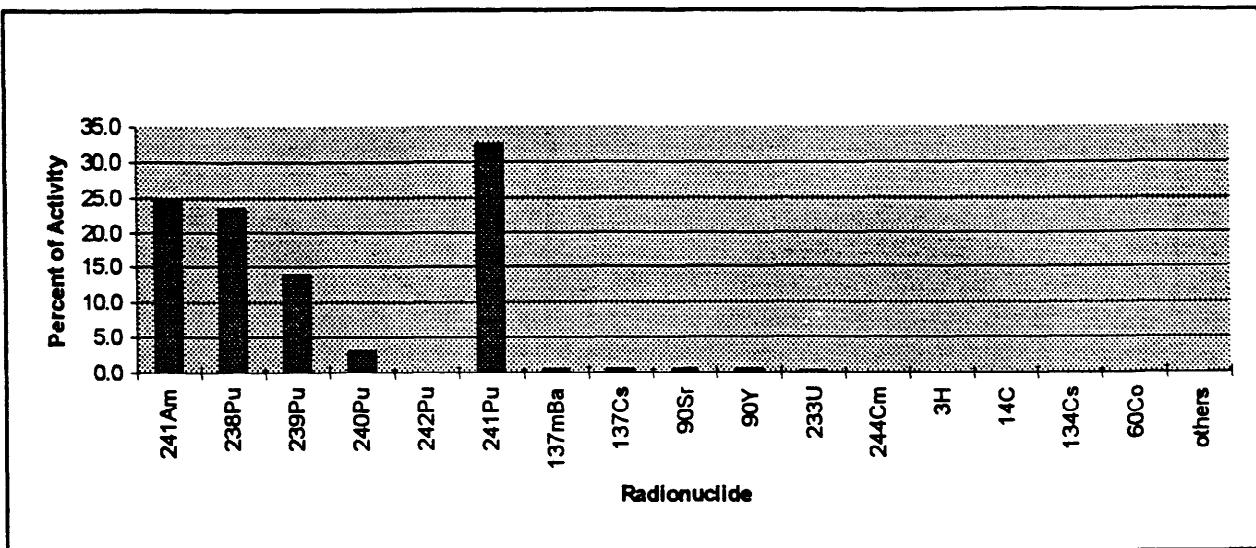


Figure 2-7. Primary radionuclide activity distribution for TSA waste.

Table 2-7. Inventory of primary radionuclides in TSA stored waste.^a

Radionuclide /Mixture	TRU (Y/N)	Estimated Activity (Ci)	Percent of Total Estimated Activity
²⁴¹ Am	Y	1.22e+05	24.696
²³⁸ Pu	Y	1.16e+05	23.415
²³⁹ Pu	Y	6.87e+04	13.907
²⁴⁰ Pu	Y	1.59e+04	3.215
²⁴² Pu	Y	1.04e+00	3.726e-05
²⁴¹ Pu	N	1.61e+05	32.591
^{137m} Ba	N	2.25e+03	0.455
¹³⁷ Cs	N	2.24e+03	0.453
⁹⁰ Sr	N	2.02e+03	0.409
⁹⁰ Y	N	2.02e+03	0.409
²³³ U	N	1.02e+03	0.206
²⁴⁴ Cm	N	5.39e+02	0.109
³ H	N	2.64e+02	0.053
¹³⁴ Cs	N	1.11e+02	0.022
⁶⁰ Co	N	1.00e+02	0.020
others	N	3.32e+02	0.067
Subtotal		4.94e+05	100

a. Primary radionuclides greater than 100 curies estimated activity. See Table 4-1 and section 4.1, 4.2, 4.3, and 4.4 for additional listing of radionuclides and information.

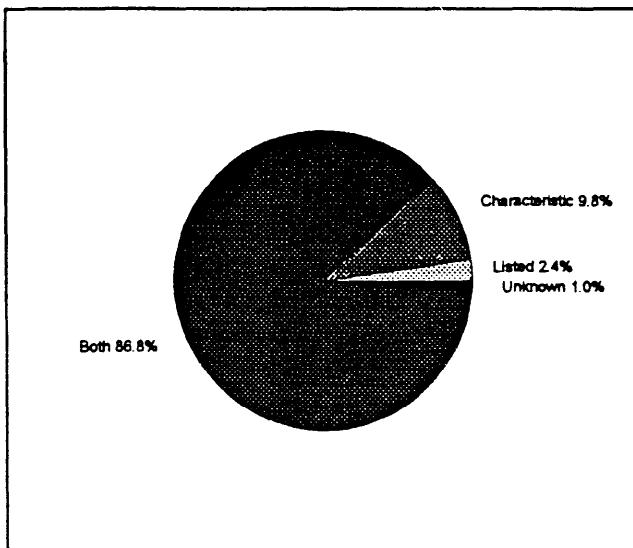


Figure 2-8a. RCRA categories of mixed ALLW.

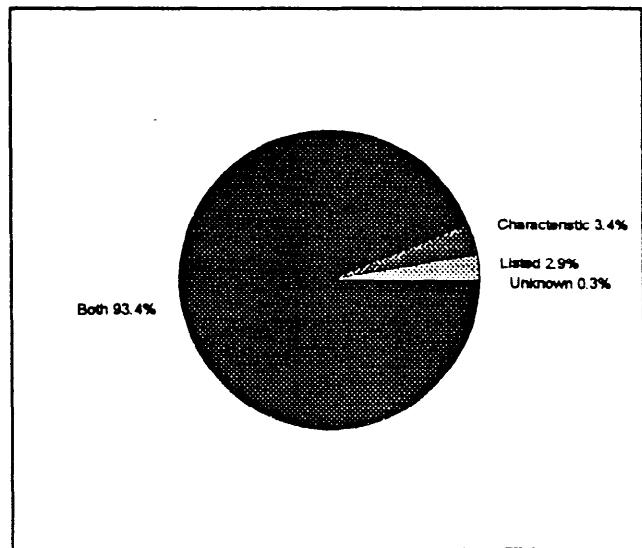


Figure 2-8b. RCRA categories of mixed TRUW.

Table 2-8. RCRA categories of stored mixed ALLW and TRUW.

RCRA category	Volume % mixed ALLW	Volume % mixed TRUW
Both characteristic and listed	86.8	93.4
Characteristic	9.8	3.4
Listed	2.4	2.9
Unknown	1.0	0.3
Total Estimated Volume	24,635 m³	39,171 m³

Table 2-9. Summary of special-case waste.

Description ^a	Number of wastestreams	Estimated mass (kg)
PCBs	2	5.85E+05 ^b
Asbestos	13	6.06E+05 ^b
Waste with suspect radioactive sources	9	<100 drums
Lead (total)	129	2.07E+06 ^c
Bulk lead and lead shielding	—	3.36E+05 ^d
Mercury	52	3.8E+05 ^e
Gas cylinders, aerosol cans, nitrated organic resins, ether based scintillation fluids	2	—
Sodium, nitrates, oxidizers	3	—
Sodium nitrate, potassium nitrate salts	2	—
Sodium potassium (NaK)	1	—
Lithium and mercury batteries	2	—
Cadmium, cadmium and heavy metals	46	—
Free liquids, free liquids in vials, aerosol cans	5	—
Suspect classified parts	1	—
Beryllium contamination	4	—

- a. From review of Tables 1, 3, and 5 of Appendices A and B.
- b. Mass values based on estimated maximum concentrations from Table 5, Appendices A and B and a total estimated mass of 3.19E+07 kg.
- c. Includes all lead contaminants from Table 5-2 based on estimated maximum concentrations of Table 5 Appendices A and B and a total estimated mass of 3.19E+07 kg.
- d. Bulk lead and lead shielding mass value derived from Table 3-1 estimated percent distributions which are based on estimated typical concentrations from matrix Table 3, Appendices A and B and a total estimated mass of 3.19E+07 kg.
- e. Includes bulk and distributed mercury based on estimated maximum concentrations of Table 5 Appendices A and B and a total estimated mass of 3.19E+07 kg.

Table 2-10. Waste summary by identifier category.*

ID Code Name	ID Code	Drums	Boxes	Bins	Inserts	Volume (m ³) ^b	Mass (kg) ^c
Alpha Low Level Mixed Waste							
<10 nCi/g NONCOMBUSTIBLE	ID-MDO-838	1	0	0	0	0.21	150.00
ABSOLUTE 8 X 8 FILTERS	ID-RFO-335	78	0	0	0	16.54	5,500.00
ABSORBED LIQUIDS	ID-AEO-102	47	0	1	0	13.46	6,300.00
ALPHA HOT CELL WASTE	ID-AEO-104	209	0	1	0	47.81	11,000.00
AMERICIUM PROCESS RESIDUE	ID-RFO-241	114	0	0	0	24.17	19,000.00
ANL-W ANALYTICAL CHEMISTRY LAB GLASSWARE	ID-ANL-161	2	0	0	0	0.42	140.00
BENELEX AND PLEXIGLASS	ID-RFO-302	7	17	0	0	55.37	30,740.00
BENELEX AND PLEXIGLASS	ID-RFO-464	18	0	0	0	3.82	2,400.00
BLACKTOP, CONCRETE, DIRT AND SAND	ID-RFO-374	1,108	42	0	0	368.04	263,000.00
BLDG 374 DRY SLUDGE	ID-RFO-007	2,190	0	0	0	464.28	480,000.00
BLDG 776 PROCESS SLUDGE	ID-RFO-976	2	20	0	0	63.82	41,400.00
CEMENTED INSULATION FILTER MEDIA	ID-RFO-376	417	2	0	0	94.74	35,900.00
CEMENTED SLUDGE	ID-RFO-292	23	0	0	0	4.88	2,914.00
CHEM CELL RIP-OUT	ID-CPP-156	0	9	0	0	28.53	11,000.00
CHEMICAL WARFARE SERVICE FILTERS	ID-RFO-490	8	275	0	0	873.45	230,680.00
COMBUSTIBLE EQUIPMENT BOXES OR FLOOR SWE	ID-MDO-826	2	3	0	0	9.93	3,240.00
COMBUSTIBLE SOLIDS	ID-BCO-202	0	0	4	0	14.00	2,760.00
COMBUSTIBLE WASTE	ID-RFO-116	1	117	0	0	371.10	89,628.00
COMBUSTIBLES	ID-BTO-010	159	0	0	0	33.71	13,900.00
CONTAMINATED SOIL	ID-MDO-842	0	27	0	0	85.59	56,080.00
CUT UP GLOVEBOXES	ID-AEO-101	0	0	11	0	38.50	10,440.00
DECONTAMINATION AND DECOMMISSIONING WAST	ID-OFS-121	1	0	0	0	0.21	44.00
DIRT	ID-RFO-090	135	0	0	0	28.62	38,000.00
DIRT	ID-RFO-990	470	0	0	0	99.64	120,000.00
DRY PAPER AND RAGS	ID-RFO-330	4,230	711	0	0	3,150.63	950,000.00
EVAPORATOR SALTS	ID-RFO-005	49	1	0	0	13.56	10,850.00
FILTER SLUDGE	ID-RFO-290	1	0	0	0	0.21	127.00
FIREBRICK	ID-RFO-371	701	11	0	0	183.48	131,000.00
FIRST STAGE SLUDGE	ID-RFO-001	262	1	0	1	58.93	57,810.00
FULFLO INCINERATOR FILTERS	ID-RFO-328	1	0	0	0	0.21	78.00
GENERAL PLANT WASTE	ID-AEO-100	0	0	106	0	371.00	85,800.00
GLASS	ID-RFO-440	450	0	0	0	95.40	48,000.00
GLASS WASTE	ID-RFO-118	15	1	0	0	6.35	3,600.00
GRAPHITE	ID-RFO-300	87	0	0	0	18.44	9,600.00
GRAPHITE CORES	ID-RFO-301	6	0	0	0	1.27	630.00
HEPA FILTER WASTE	ID-RFO-119	87	16	0	0	69.16	16,700.00
HIGH-LEVEL ACID	ID-MDO-834	188	0	0	0	39.86	35,500.00
HIGH-LEVEL CAUSTIC	ID-MDO-835	844	0	0	0	178.93	146,000.00
HIGH-LEVEL SLUDGE/CEMENT	ID-MDO-836	4,152	0	0	0	880.22	1,190,000.00
INORGANIC SOLID WASTE	ID-RFO-122	58	0	0	0	12.30	9,300.00
INSULATION	ID-RFO-360	223	1	0	0	50.43	15,300.00
INSULATION AND CHEMICAL WARFARE SERVICE	ID-RFO-338	44	73	0	0	240.74	68,700.00
LABORATORY WASTE	ID-INAL-150	15	0	0	2	3.60	1,210.00
LAUNDRY SLUDGE	ID-RFO-978	0	8	0	0	25.36	13,100.00
LEACHED AND CEMENTED RESIN	ID-RFO-432	42	0	0	0	8.90	5,700.00

Table 2-10. (continued).

ID Code Name	ID Code	Drums	Boxes	Bins	Inserts	Volume (m ³) ^b	Mass (kg) ^c
LEACHED NONSPECIAL SOURCE METAL	ID-RFO-481	192	39	0	0	164.33	71,000.00
LEACHED RASHIG RINGS	ID-RFO-442	653	0	0	0	138.44	55,000.00
LEACHED RESIN	ID-RFO-431	2	0	0	0	0.42	366.00
LEADED RUBBER	ID-RFO-123	11	0	0	0	2.33	1,200.00
LEADED RUBBER GLOVES AND APRONS	ID-RFO-339	23	0	0	0	4.88	3,400.00
LEADED RUBBER GLOVES AND APRONS	ID-RFO-463	5	0	0	0	1.06	470.00
LOW SPECIFIC ACTIVITY METAL, GLASS, ETC.	ID-RFO-950	104	329	0	0	1,064.98	408,550.00
LOW SPECIFIC ACTIVITY PLASTICS, PAPER, ETC.	ID-RFO-900	346	6	0	0	92.37	36,793.00
LSA < 100 nCi/g COMBUSTIBLE	ID-MDO-847	721	0	0	0	152.85	84,700.00
LSA < 100 nCi/g NONCOMBUSTIBLE	ID-MDO-848	128	0	0	0	27.14	12,420.00
METAL WASTE	ID-RFO-117	38	44	0	0	147.54	62,300.00
METAL, EQUIPMENT, PIPES, VALVES, ETC.	ID-MDO-803	13	0	0	0	2.76	970.00
MOIST PAPER AND RAGS	ID-RFO-336	6,522	22	0	0	1,452.40	598,000.00
NONCOMBUSTIBLE EQUIPMENT BOXES	ID-MDO-824	0	264	0	0	836.88	265,000.00
NONCOMBUSTIBLE SOLIDS	ID-BCO-201	0	0	23	0	80.50	26,100.00
NONCOMPRESSIBLE, NONCOMBUSTIBLE	ID-BTO-020	294	0	0	0	62.33	31,500.00
NONSPECIAL SOURCE METAL	ID-RFO-480	1,537	2,007	0	0	6,688.03	2,572,000.00
NOT RECORDED - UNKNOWN	ID-RFO-000	645	0	0	0	136.74	60,000.00
OIL-DRI RESIDUE FROM INCINERATOR	ID-RFO-375	15	0	0	0	3.18	2,100.00
ORGANIC SETUPS, OIL SOLIDS	ID-RFO-003	4,636	6	0	0	1,001.85	1,009,100.00
PAPER, METALS, GLASS	ID-BCO-203	0	0	6	0	21.00	4,400.00
PLASTICS, TEFLON, WASH, PVC	ID-RFO-337	1,605	4	0	0	352.94	123,800.00
PRE-73 DRUMS	ID-RFO-9999	14,188	0	0	0	3,007.86	1,471,348.00
RESEARCH GENERATED WASTE NONCOMPACTIBLE	ID-OFS-111	1,316	2	0	0	285.33	291,600.00
SCRAP	ID-INL-155	6	1	0	0	4.44	828.00
SECOND STAGE SLUDGE	ID-RFO-002	1,615	0	0	0	342.38	410,000.00
SOLID LAB WASTE	ID-RFO-113	12	0	0	0	2.54	3,600.00
SOLIDIFIED GRINDING SLUDGE, ETC.	ID-BTO-030	0	0	0	2	0.42	560.00
SOLIDIFIED INORGANIC PROCESS SOLUTION	ID-RFO-114	19	0	0	0	4.03	3,100.00
SOLIDIFIED ORGANICS	ID-RFO-112	24	0	0	0	5.09	4,300.00
SOLIDIFIED SOLUTIONS	ID-BCO-204	3	0	0	0	0.64	729.00
SPECIAL SETUPS (CEMENT)	ID-RFO-004	490	0	0	0	103.88	130,000.00
TAN DECON HEAVY METAL SOLIDS AND DEBRIS	ID-TAN-163	0	0	0	0	0.32	263.08
TAN DECON SOLVENT WASTES	ID-TAN-162	0	0	0	0	7.14	7,120.49
TANTALUM	ID-RFO-320	135	0	0	0	28.62	17,000.00
UNLEACHED ION COLUMN RESIN	ID-RFO-430	9	0	0	0	1.91	1,610.00
UNLEACHED RASHIG RINGS	ID-RFO-441	777	0	0	0	164.72	67,000.00
WOOD	ID-RFO-970	12	28	0	0	91.30	27,800.00
Subtotals		52,543	4,087	152	5	24,635.40	12,139,248.60
Alpha Low Level Non-mixed Waste							
ANLW ALPHA LOW LEVEL WASTE	CH-ANL-RDA	0	0	0	0	0.20	322.50
COMBUSTIBLE LAB WASTE	ID-INL-153N	28	0	0	0	5.94	1,493.00
CONCRETE, ASPHALT, ETC.	ID-RFO-960N	657	171	0	0	681.35	451,900.00
CRUCIBLE, LECO	ID-RFO-370N	23	0	0	0	4.88	3,680.00
FLUID BED ASH	ID-RFO-425N	6	0	0	0	1.27	1,050.00

Table 2-10. (continued).

ID Code Name	ID Code	Drums	Boxes	Bins	Inserts	Volume (m ³) ^b	Mass (kg) ^c
GRAPHITE SCARFINGS	ID-RFO-310N	1	0	0	0	0.21	100.00
GRAPHITE WASTE	ID-RFO-115N	5	0	0	0	1.06	410.00
GRIT	ID-RFO-372N	4	0	0	0	0.85	500.00
NONCOMBUSTIBLE EQUIPMENT DRUMS	ID-MDO-825N	46	2	0	0	16.09	5,900.00
SAMPLE FUEL	ID-TRA-154N	1	0	0	0	0.21	210.00
SLUDGE	ID-RFO-095N	23	0	0	0	4.88	4,000.00
SLUDGE	ID-RFO-995N	205	8	0	0	68.82	60,400.00
	Subtotals	999	181	0	0	785.76	529,965.50
Transuranic Mixed Waste							
ABSOLUTE 8 X 8 FILTERS	ID-RFO-335T	49	5	0	0	26.24	6,522.00
ABSORBED LIQUIDS	ID-AEO-102T	58	0	12	0	54.30	21,570.00
ALHC UPGRADE DECON DEBRIS	CH-ANL-505T	0	0	0	0	1.18	775.64
ALPHA HOT CELL WASTE	ID-AEO-104T	195	0	5	0	58.84	14,900.00
AMERICIUM PROCESS RESIDUE	ID-RFO-241T	5	0	0	0	1.06	830.00
AMERICIUM SOURCES	ID-TAN-200T	1	0	0	0	0.21	23.00
ANL-W ACL COLD-LINE ABSORBED LIQUID, MIS	ID-ANL-163T	6	0	0	0	1.27	490.00
ANL-W FMF EFL Zr-U FUEL CASTING ALLOYS R	ID-ANL-162T	41	0	0	0	8.69	2,200.00
ANL-W HFEP ANALYTICAL CHEMISTRY AND META	ID-ANL-160T	0	0	0	1	0.21	230.00
ASBESTOS FILTERS	ID-MDO-805T	38	0	0	0	8.06	2,500.00
BENELEX AND PLEXIGLASS	ID-RFO-302T	15	6	0	0	22.20	13,464.00
BENELEX AND PLEXIGLASS	ID-RFO-464T	29	0	0	0	6.15	3,310.00
BLACKTOP, CONCRETE, DIRT, AND SAND	ID-RFO-374T	161	6	0	0	53.15	29,590.00
BLDG 374 DRY SLUDGE	ID-RFO-007T	2,166	0	0	0	459.19	482,470.00
BLDG 776 PROCESS SLUDGE	ID-RFO-976T	5	0	0	0	1.06	1,000.00
CEMENTED INSULATION AND FILTER MEDIA	ID-RFO-376T	2,096	5	0	0	460.20	172,430.00
CEMENTED SLUDGE	ID-RFO-292T	521	0	0	0	110.45	66,024.00
CHEMICAL WARFARE SERVICE FILTERS	ID-RFO-490T	68	788	0	0	2,512.38	678,240.00
CLASSIFIED PARTS	ID-MDO-815T	2	0	0	0	0.42	97.00
COARSE GRAPHITE	ID-RFO-312T	9	0	0	0	1.91	636.00
COMBUSTIBLE EQUIPMENT BOXES OR FLOOR SWEEPINGS	ID-MDO-826T	3	25	0	0	79.89	25,370.00
COMBUSTIBLE EQUIPMENT DRUMS	ID-MDO-827T	9	0	0	0	1.91	710.00
COMBUSTIBLE SOLIDS	ID-BCO-202T	3	0	1	0	4.14	920.00
COMBUSTIBLE WASTE	ID-RFO-116T	3	850	0	0	2,695.14	621,303.00
COMBUSTIBLES	ID-BTO-010T	781	0	0	0	165.57	68,100.00
CONTAMINATED MERCURY OR GRAPHITE CRUCIBLE	ID-MDO-814T	2	0	0	0	0.42	120.00
CONTAMINATED SOIL	ID-MDO-842T	0	12	0	0	38.04	24,920.00
CUT UP GLOVEBOXES	ID-AEO-101T	0	5	56	0	211.85	71,950.00
DECONTAMINATION AND DECOMMISSIONING WASTE	ID-AEO-120T	2	0	0	0	0.12	150.00
DECONTAMINATION AND DECOMMISSIONING WASTE	ID-OFS-121T	0	8	0	0	25.36	11,000.00
DIRECT OXIDE REDUCTION SALT	ID-RFO-414T	5	0	0	0	1.06	430.00
DRY BOX GLOVES AND O-RINGS	ID-MDO-802T	121	0	0	0	25.65	6,900.00
DRY PAPER AND RAGS	ID-RFO-330T	892	1,762	0	0	5,774.64	1,457,150.00
EMPTY BOTTLES	ID-AEO-105T	7	0	0	0	1.48	320.00
EQUIPMENT	ID-RFO-980T	1	0	0	0	0.21	81.00
EVAPORATOR AND DISSOLVER SLUDGE	ID-MDO-811T	4	0	0	0	0.85	300.00

Table 2-10. (continued).

ID Code Name	ID Code	Drums	Boxes	Bins	Inserts	Volume (m ³) ^b	Mass (kg) ^c
EVAPORATOR SALTS	ID-RFO-005T	3	0	0	0	0.64	550.00
FIREBRICK	ID-RFO-371T	331	13	0	0	111.38	55,600.00
FIRST STAGE SLUDGE	ID-RFO-001T	11,849	6	0	0	2,531.01	2,580,959.00
FULFLO INCINERATOR FILTERS	ID-RFO-328T	7	0	0	0	1.48	542.00
GENERAL PLANT WASTE	ID-AEO-100T	2	1	219	0	770.09	235,660.00
GLASS	ID-RFO-440T	974	13	0	0	247.70	107,930.00
GLASS FILTERS AND FIBERGLASS	ID-MDO-813T	3	0	0	0	0.64	170.00
GLASS WASTE	ID-RFO-118T	35	51	0	0	169.09	64,180.00
GLASS, FLASKS, SAMPLE VIALS, ETC.	ID-MDO-810T	13	0	0	0	2.76	970.00
GRAPHITE	ID-RFO-300T	1,848	0	0	0	391.78	204,800.00
GRAPHITE CORES	ID-RFO-301T	30	0	0	0	6.36	3,610.00
HEPA FILTER WASTE	ID-RFO-119T	222	106	0	0	383.08	100,610.00
HEPA FILTERS	ID-CPP-172	0	0	0	0	27.91	7,708.35
HIGH-LEVEL ACID	ID-MDO-834T	713	0	0	0	151.16	134,500.00
HIGH-LEVEL CAUSTIC	ID-MDO-835T	831	0	0	0	176.17	144,000.00
HIGH-LEVEL SLUDGE/CEMENT	ID-MDO-836T	26	0	0	0	5.51	7,500.00
INORGANIC SOLID WASTE	ID-RFO-122T	86	0	0	0	18.23	11,970.00
INSULATION	ID-RFO-360T	16	0	0	0	3.39	1,040.00
INSULATION AND CHEMICAL WARFARE SERVICE	ID-RFO-338T	209	5	0	0	60.16	20,330.00
LABORATORY WASTE	ID-INL-150T	104	0	0	18	25.86	78,614.00
LAUNDRY SLUDGE	ID-RFO-978T	0	3	0	0	9.51	7,900.00
LEACHED AND CEMENTED RESIN	ID-RFO-432T	243	0	0	0	51.52	30,300.00
LEACHED NONSPECIAL SOURCE METAL	ID-RFO-481T	700	93	0	0	443.21	214,400.00
LEACHED RASHIG RINGS	ID-RFO-442T	582	24	0	0	199.46	88,957.00
LEACHED RESIN	ID-RFO-431T	4	0	0	0	0.85	733.00
LEADED RUBBER	ID-RFO-123T	300	0	0	0	63.60	36,900.00
LEADED RUBBER GLOVES AND APRONS	ID-RFO-339T	696	4	0	0	160.23	108,400.00
LEADED RUBBER GLOVES AND APRONS	ID-RFO-463T	48	0	0	0	10.18	8,380.00
LOW SPECIFIC ACTIVITY (< 100 nCi/g) COMB	ID-MDO-847T	20	0	0	0	4.24	2,300.00
LOW SPECIFIC ACTIVITY (< 100 nCi/g) NONC	ID-MDO-848T	6	0	0	0	1.27	580.00
LOW SPECIFIC ACTIVITY METAL, GLASS, ETC.	ID-RFO-950T	6	4	0	0	13.95	5,450.00
LOW SPECIFIC ACTIVITY PLASTICS, PAPER, E	ID-RFO-900T	4	0	0	0	0.85	363.00
METAL WASTE	ID-RFO-117T	96	471	0	0	1,513.42	621,860.00
METAL, EQUIPMENT, PIPES, VALVES, ETC.	ID-MDO-803T	167	0	0	0	35.40	12,326.00
MISCELLANEOUS SOURCES	ID-INL-157T	2	0	0	0	0.42	150.00
MOIST PAPER AND RAGS	ID-RFO-336T	950	182	0	0	778.34	222,119.00
MOLTEN SALTS - 30% UNPULVERIZED	ID-RFO-409T	31	0	0	0	6.57	3,200.00
NONCOMBUSTIBLE EQUIPMENT BOXES	ID-MDO-824T	0	117	0	0	370.89	134,630.00
NONCOMBUSTIBLE SOLIDS	ID-BCO-201T	42	0	16	0	64.90	25,010.00
NONCOMPRESSIBLE, NONCOMBUSTIBLE	ID-BTO-020T	500	0	0	0	106.00	53,500.00
NONSPECIAL SOURCE METAL	ID-RFO-480T	1,018	1,586	0	0	5,243.44	2,387,960.00
NOT RECORDED - UNKNOWN	ID-RFO-000T	18,338	0	72	0	4,139.66	1,803,970.00
OIL-DRI RESIDUE FROM INCINERATOR	ID-RFO-375T	4	0	0	0	0.85	600.00
ORGANIC AND SLUDGE IMMOBILIZATION SYSTEM	ID-RFO-700T	9	0	0	0	1.91	2,400.00
ORGANIC SETUPS, OIL SOLIDS	ID-RFO-003T	2,596	6	0	0	569.37	631,400.00

Table 2-10. (continued).

ID Code Name	ID Code	Drums	Boxes	Bins	Inserts	Volume (m ³) ^b	Mass (kg) ^c
PAPER, METALS, GLASS	ID-BCO-203T	26	0	0	0	5.51	2,500.00
PLASTICS, TEFLON, WASH, PVC	ID-RFO-337T	699	7	0	0	170.38	59,090.00
PRE-73 DRUMS	ID-RFO-9999T	21,282	0	0	0	4,511.78	2,207,022.00
RAGS, PAPER, WOOD, ETC.	ID-MDO-801T	35	0	0	0	7.42	2,100.00
REMOTE-HANDED WASTE	ID-AEO-107T	30	0	0	0	6.36	1,600.00
RESEARCH GENERATED WASTE COMPACTIBLE & C	ID-AEO-110T	2	1	0	0	3.59	1,330.00
RESEARCH GENERATED WASTE NONCOMPACTIBLE	ID-OFS-111T	2,611	0	0	0	553.53	535,400.00
SCRAP	ID-INL-155T	9	4	0	0	14.59	6,240.00
SECOND STAGE SLUDGE	ID-RFO-002T	6,117	0	0	0	1,296.80	1,402,000.00
SODIUM - TRU	CH-ANL-180T	0	0	0	0	13.62	119,870.98
SODIUM POTASSIUM -NaK- TRU	CH-ANL-182T	0	0	0	0	0.25	2,721.55
SOLID BINARY SCRAP POWDER, ETC.	ID-BTO-040T	172	0	0	0	36.46	38,000.00
SOLID LAB WASTE	ID-RFO-113T	68	0	0	0	14.42	19,680.00
SOLIDIFIED FUEL SLUDGE	ID-CPP-151T	2	0	0	0	0.42	320.00
SOLIDIFIED GRINDING SLUDGE, ETC.	ID-BTO-030T	45	0	0	0	9.54	4,900.00
SOLIDIFIED INORGANIC PROCESS SOLUTION	ID-RFO-114T	334	0	0	0	70.81	58,400.00
SOLIDIFIED ORGANICS	ID-RFO-112T	774	0	0	0	164.09	191,620.00
SOLIDIFIED SOLUTIONS	ID-BCO-204T	4	0	0	0	0.85	971.00
SPECIAL SETUPS (CEMENT)	ID-RFO-004T	1,055	1	0	0	226.83	286,980.00
SPECIAL SOURCE MATERIAL	ID-AEO-106T	1	0	0	0	0.21	75.00
TANTALUM	ID-RFO-320T	322	2	0	0	74.60	29,400.00
TRANSURANIC CONTAMINATED LEAD DEBRIS	ID-INL-142T	4	4	0	0	12.12	5,950.32
TRU HEAVY METAL SLUDGE	ID-TRA-291T	0	0	0	0	2.08	1,070.48
TRU WASTE USED PRE-FILTERS	CH-ANL-503T	0	0	0	0	0.91	190.06
TRU-CD-HQT CELL WASTE	CH-ANL-241T	0	0	0	0	0.69	1,125.78
UNLEACHED ION COLUMN RESIN	ID-RFO-430T	20	0	0	0	4.24	3,590.00
UNLEACHED RASHIG RINGS	ID-RFO-441T	797	0	0	0	168.96	72,000.00
WASHABLES, RUBBER, PLASTICS	ID-RFO-460T	6	0	0	0	1.27	1,300.00
WOOD	ID-RFO-970T	10	34	0	0	109.90	33,840.00
	Subtotals	85,387	6,210	381	19	39,170.51	19,041,368.17
Transuranic Non-mixed Waste							
ANL-752 TRU WASTE	CH-ANL-542	0	0	0	0	2.29	816.01
ANLW TRANSURANIC HAZARDOUS SCRAP	CH-ANL-HST	0	0	0	0	0.40	610.08
ANLW TRANSURANIC SCRAP	CH-ANL-SCT	0	0	0	0	12.87	28,082.96
ASH HEELS	ID-RFO-421TN	101	0	0	0	21.41	9,700.00
COMBUSTIBLE LAB WASTE	ID-INL-153TN	2	0	0	7	1.91	1,607.00
CONCRETE, ASPHALT, ETC.	ID-RFO-960TN	46	0	0	0	9.75	8,900.00
CRUCIBLES AND SAND	ID-RFO-391TN	22	0	0	0	4.66	3,300.00
ELECTROREFINING SALT	ID-RFO-411TN	6	0	0	0	1.27	530.00
FLUID BED ASH	ID-RFO-425TN	2	0	0	0	0.42	350.00
GIBSON SALTS	ID-RFO-412TN	1	0	0	0	0.21	110.00
GRAPHITE HEELS	ID-RFO-311TN	6	1	0	0	4.44	1,790.00
GRAPHITE SCARFINGS	ID-RFO-310TN	16	0	0	0	3.39	1,700.00
GRAPHITE WASTE	ID-RFO-115TN	315	0	0	0	66.78	33,500.00
GRIT	ID-RFO-372TN	14	0	0	0	2.97	1,800.00

Table 2-10. (continued).

2-17

ID Code Name	ID Code	Drums	Boxes	Bins	Inserts	Volume (m ³) ^b	Mass (kg) ^c
INSULATION HEELS	ID-RFO-361TN	1	0	0	0	0.21	190.00
LECO CRUCIBLES	ID-RFO-370TN	12	0	0	0	2.54	1,920.00
MET SAMPLES FISSILE	ID-BTO-081TN	17	0	0	0	3.60	1,400.00
MISCELLANEOUS SOURCES	ID-BTO-012TN	1	0	0	0	0.21	160.00
MOLTEN SALTS - 30% PULVERIZED	ID-RFO-410TN	22	0	0	0	4.66	3,000.00
NEUTRON SOURCES	ID-BTO-015TN	3	0	0	0	0.64	4.00
NONCOMBUSTIBLE EQUIPMENT DRUMS	ID-MDO-825TN	179	9	0	0	66.48	24,100.00
PLASTIC, TYGON, MANIPULATOR BOOTS, ETC.	ID-MDO-804TN	220	0	0	0	46.64	11,220.00
PU NEUTRON SOURCES	ID-INL-152TN	8	0	1	1	5.41	2,470.00
RSWF TRANSURANIC WASTE	CH-ANL-538	0	0	0	0	6.22	25,387.12
SAMPLE FUEL	ID-TRA-154TN	9	0	0	0	1.91	1,890.00
SAND, SLAG AND CRUCIBLES	ID-RFO-392TN	7	0	0	0	1.48	1,300.00
SAND, SLAG, AND CRUCIBLE HEELS	ID-RFO-393TN	47	0	0	0	9.96	4,400.00
SCARFED GRAPHITE CHUNKS	ID-RFO-303TN	58	0	0	0	12.30	6,600.00
SLUDGE	ID-RFO-995TN	91	0	0	0	19.29	19,800.00
SOLIDIFIED SOLUTIONS	ID-BTO-050TN	1	0	0	0	0.21	99.00
SOOT	ID-RFO-422TN	24	0	0	0	5.09	2,200.00
TRU PYROCHEMICAL SALT WASTE	ID-RFO-124TN	15	0	0	0	3.18	1,100.00
VIRGIN INCINERATOR ASH	ID-RFO-420TN	11	0	0	0	2.33	1,700.00
ZINC MAGNESIUM ALLOY METAL	ID-RFO-416TN	1	0	0	0	0.21	220.00
	Subtotals	1,258	10	1	8	325.37	201,956.17
	Grand Totals	140,187	10,488	534	32	64,917	31,912,540

a. As derived from the INEL IMWI database, September 1995.

b. Container volumes are estimated at: 1 drum = 0.212m³, 1 box = 3.17m³, 1 bin = 3.50m³, 1 insert = 0.212m³ for consistency.

c. The gross mass includes container mass.

